

CLAIMS

What is claimed is:

1. A method of maintaining a human hookworm in a non-human primate, comprising:
 - 5 a. administering a non-adapted human hookworm to the primate to produce a human hookworm infection in the non-human primate, and
 - b. maintaining the hookworm-infected non-human primate.
2. The method of Claim 1, wherein the non-adapted human hookworm is a fresh human hookworm isolate.
- 10 3. The method of Claim 1, wherein the human hookworm is *Necator americanus*.
4. The method of Claim 1, wherein the non-human primate is a marmoset.
5. The method of Claim 4, wherein the marmoset is *Callithrix jacchus*.
6. The method of Claim 1, wherein the non-human primate is infected with from about 100 to about 1000 hookworm larvae.
- 15 7. The method of Claim 1, wherein the human hookworm infection in the primate exhibits at least one of a patency, pathology, or immunology substantially similar to a hookworm infection in a human.
8. A human hookworm model comprising a non-human primate infected with a human hookworm.

9. The model of Claim 8, wherein a human hookworm infection is maintained in the non-human primate.

10. A method of producing a human hookworm, comprising:

- a. administering a non-adapted human hookworm to a non-human primate to produce a human hookworm infection in the non-human primate,
- b. maintaining the hookworm-infected non-human primate,
- c. obtaining a fecal material from the non-human hookworm-infected primate, and
- d. isolating the human hookworm from the fecal material of the non-human hookworm-infected primate.

11. A composition comprising a human hookworm, or an antigenic component thereof, in a carrier, wherein the human hookworm is produced by a process comprising:

- a. administering a non-adapted human hookworm to a non-human primate to produce a human hookworm infection in the primate,
- b. maintaining the hookworm-infected non-human primate,
- c. obtaining a fecal material from the non-human hookworm-infected primate,
- d. isolating human hookworm from the fecal material of the non-human hookworm-infected primate, and
- e. combining the human hookworm, or an antigenic component thereof, with a pharmaceutically acceptable carrier.

12. The composition of Claim 11, wherein the composition is a therapeutic or immunogenic composition.
13. The composition of Claim 11, wherein the composition is a therapeutic composition comprising a vaccine.
- 5 14. The composition of Claim 13, wherein the vaccine protects against human hookworm infection when administered to a human or animal.
15. The composition of Claim 11, wherein the composition is a therapeutic composition for producing an immune response in a human or animal.
- 10 16. The composition of Claim 11, wherein the composition is a therapeutic composition for protection against allergenic sensitivity in a human.